Functional Design

CATEGORY

Outbound Interface

APPLICATION OVERVIEW

Budgets can be created directly in- Cardinal or loaded from an outside source such as the Department of Planning and Budget (DPB). For the Department of Transportation (VDOT), the Annual Budget Development System (ABDS) is used to develop the administrative budgets. These budgets will be extracted and loaded into Cardinal using the GL80 Budget Spreadsheet Journal Upload extension and the GL65 – Inbound Budget Journal spreadsheet upload (ADBS) interface. In some cases it is nessecary to extract budget data from Cardinal for use by other agencies, internal or external business processes, or reporting.

A new outbound interface will be created to extract the budget data from the Cardinal budget journal and funding source tables to send to other external systems. . This extract will export the budget ledger journals based on specific criteria assigned in the run control. In the future, this interface will also serve to send budget ledger journal data to the Department of Planning and Budget's Performance Budgeting system. All references to Funding Source currently only aplly to Part 1-VDOT.

Supported Business Processes

Create and Process Budget Journals

Purpose/Use

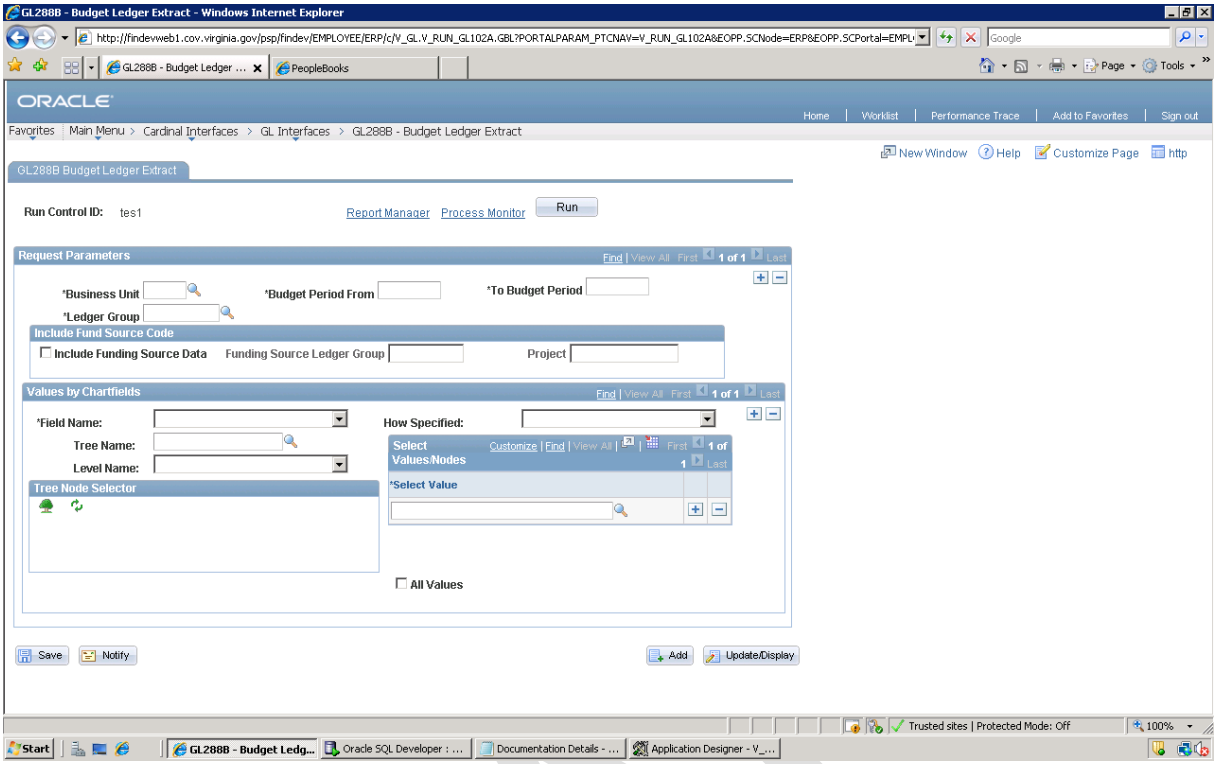
This interface extracts current and prior year budget data from the budget journal tables in Cardinal for budgets.

Processing Overview

The interface will perform the following functions:

1. User assigned the correct role will run the Budget Ledger Extract from a new run control page that will be added to the Commitment Control menu.
2. The parameters on the run control will include the Business Unit, the Ledger Group, a starting Budget Period, and an ending Budget Period.
3. A business unit tree will be used to give the option of running the interface for more than one business unit. The tree nodes will group business units and users can select a tree node to run the interface for all business units under the selected node.
4. The user will have the option to include Project funding source data (if available) by selecting a Funding Source check box on the run control page and specifying a funding source ledger group (PS_LED_GRP_TBL) and a project type (PS_ PROJ_TYPE_TBL).
5. The run control page will also include the option to specify ChartFields for which the data should be extracted. If a ChartField is selected, the user will be able to specify the values. The options will be: Detail of Selected Parent (using trees and tree nodes), Range of Values or Select Detail values (for a specific value).
6. To select all values for a ChartField, the user will choose the 'Selected Detail Values' option and select the 'All Values' check box. Selecting the 'All Values' check box will allow the page to save without a specific value specified.
7. Run Control page will provide fields to enter the names of the output files that get created for the Budget Ledger Extract data and the funding source data.

8. Once initiated, the application engine will read the budget journal tables (KK_BUDGET_HDR and KK_BUDGET_LN) and write the data to a flat file based on the parameters specified on the run control page.
9. Only budget journal lines with a 'Posted' status will be retrieved.
10. If the Project ChartField is selected for a Project budget ledger, the Application Engine will include the Funding Source values associated with the Project only when that information is available on the KK_BUDGET_LN record.
11. The Application engine program fills up the Budget Ledger Extract file with the Fund source data also (if it is available in KK_BUDGET_LN record) whenever the user has selected the "PROJECT_ID" ChartField and groups the data based on both the PROJECT_ID and the FUND_SOURCE.
12. If a Project ChartField is selected and no Funding Source data is available on the KK_BUDGET_LN record, the app engine will check to see if the 'Include Funding Source Data' flag has been set (on the run control).
13. If the flag is set, a funding source ledger group field and project type field will be activated. (When the flag is not set, these fields will be inactive and grayed out).
14. The user will indicate the funding source ledger group and project type from a list of available values. The ledger group field will be a required field. If no project type is indicated, all project types will be extracted.
15. If no project type is selected, the program creates the separate funding source data file only for those projects whose funding source data is not present in the Budget Ledger Extract file.
16. If a particular Project type is selected, the program will check whether the funding source data is present in the Budget Ledger extract file for that particular project.
    If present, it will not create a separate Funding source data file for that project. If not present, it will extract the Funding source data and create a separate funding source data file only for that Project.
17. The funding source data will be retrieved from the KK_FS_VALUE, KK_FUND_SOURCE and KK_REV_XREF records.
18. Whenever the program is retrieving the data from the above mentioned records, it goes by the V_FS_LEDGER_GRP field and not by the LEDGER_GROUP field.
19. Funding Sources will not be tied to a budget period. The funding source amount will be set and increased yearly or as needed. This interface will extract funding source based on the project.
20. The Funding Source data obtained from the funding source budget records (KK_FS_VALUE, KK_FUND_SOURCE and KK_REV_XREF) will be written to a different flat file (using the same file layout) if the 'Include Funding Source Data' flag is set. The data will include the Business Unit, Ledger Group, Project ChartField, the Funding Source ID, description and amount.
21. See below for a mock run control



IMPACTED OBJECT INVENTORY AND DESCRIPTION

Please refer to the technical design section.

RELATED LEGACY OBJECTS

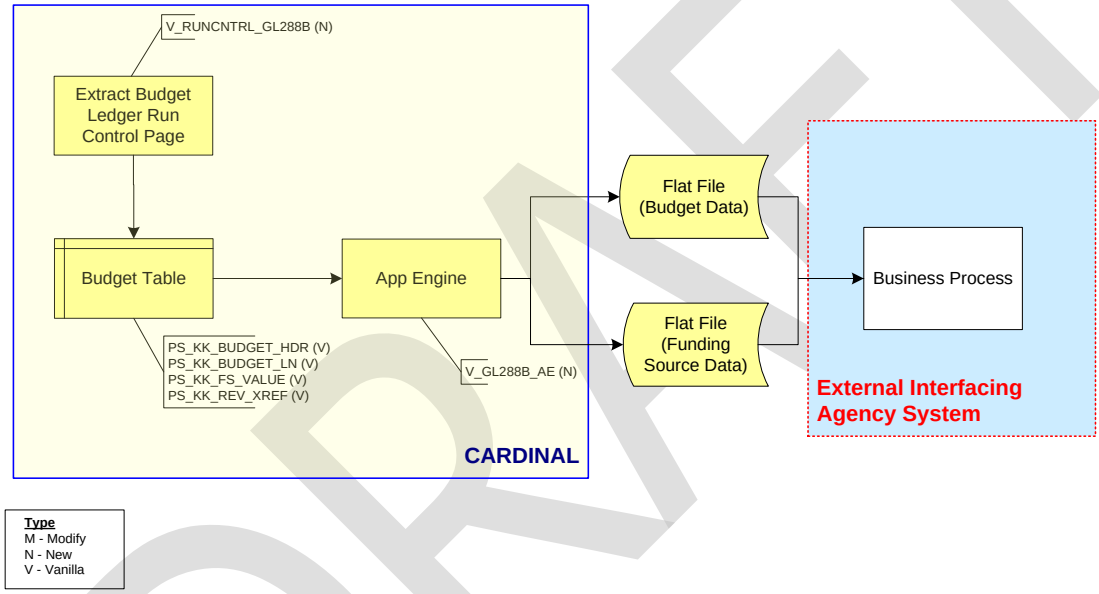
- In CARS, 3 agencies utilize the CARS History Extract for budget data. This will be replaced by the Budget Ledger Extract in Cardinal.

Parent Agency Name	Parent Agency Number
DEPARTMENT OF PLANNING AND BUDGET	122
DEPARTMENT OF TAXATION	161
UNIVERSITY OF VIRGINIA - ACADEMIC DIV	207

ASSUMPTIONS

- Business Unit, Ledger Group and Budget Period will be required fields and must be valid values on the run control.
- The interface can be run for one or a list of business units and produce one output file.
- The run control will use the ChartField Combination as parameters.
- This interface will only extract data from the budget journal records. ACTUALS expenditure data will not be included.
- The Funding Source data will be written to a different flat file than the rest of the budget data when the information is not on the KK_BUDGET_LN record and is obtained from the KK_FS_VALUE, KK_FUND_SOURCE and KK_REV_XREF records.
- The run control component for this interface will be added to the MANAGE_COMMITMENT_CONTROL menu.

APPLICATION FLOW DIAGRAM



FILE PROCESSING

- The file layout will be available during technical design.

RTM CROSS-REFERENCE

This modification satisfies the following requirements:

- GL64 –The system shall have the ability to perform outbound interface processing with performance budgeting to send budget data which had been entered directly into General Ledger.

CONVERSION IMPACT

This modification has the following conversion impacts:

- Prior fiscal year data will be converted (GL003 – Budget Journal Entries conversion)

CONFIGURATION IMPACT

This modification has the following configuration impacts:

- N/A

CHANGE MANAGEMENT IMPACT

This modification has the following change management impacts:

- Any user who will have access to the run control will need to be trained on how to run the Budget Data extract.

SECURITY / SENSITIVE DATA IMPACT

This modification has the following security / sensitive data impacts:

- A role will be created (or security will be added to an existing user role) to run the interface.
- The users to be assigned this role will need to be determined.

TECHNICAL IMPACT

This modification has the following technical impacts:

- New interface architecture configurations will be added to identify the output file and the processing location of the interface

RELATED WORK UNITS

This modification is related to the following work units:

- GL063A – DPB Budget Journal Upload
- GL288A – Actuals Ledger Extract

TESTING SCENARIOS

#	Description
1	Run the Budget Data extract for multiple budget periods and verify that all selected period data are included.
2	Run the Budget Data extract for a single Budget Period and verify that only the selected period data is included.
3	Verify that the Budget Data extract can run with only the required ChartFields populated.
4	Run the Budget Data extract with all ChartFields populated and verify that the correct data is included.
6	Run the Budget Data extract using the 'Detail – Selected Parents' option and verify that the data include all ChartFields values at the selected tree node level.
7	Run the budget data extract by selecting a cost center type using the cost center tree and verify that only the selected cost centers are included in the extract.
8	Run the budget data extract by selecting a business unit tree node and verify that the data extracted includes data from all business units under the selected node.
9	Run the interface with the 'Include Funding Source Data' flag not set and verify that only one flat file is generated with the budget data and it does not include any funding source data.

#	Description
10	Run the interface, with the 'Include Funding Source Data' flag set and verify that two flat files are generated. One with the budget data and the other with the funding source data.

REPORT LAYOUT

- N/A

CONVERSION

N/A

OPEN ISSUES

#	Issue	Owner	Status	Response

Note: The Open Issues section should be used by the technical designer to track open issues. This can also be used to track items that come up in peer review. Prior to going to inspection review all items should be addressed and grayed out.